

TRIM3 (T-13): sc-132856

BACKGROUND

Tripartite motif-containing protein 3 (TRIM3), also known as RING finger protein 22 (RNF22), RING finger protein 97 (RNF97) or brain-expressed RING finger protein (BERP), is a 744 amino acid member of the TRIM family, also known as the RING-B-box coiled-coil (RBCC) family. Members of the RBCC family have an N-terminal RING finger, followed by one or two zinc-binding domains (B-box domains), a leucine coiled-coil region and a variable C-terminal domain. Localized to cytoplasmic filaments, TRIM3 has been shown to interact with α -actinin-4 and Myosin V, two proteins associated with the Actin cytoskeleton. Specifically, α -actinin-4 interacts with the RBCC domain of TRIM3, and the C-terminal tail of Myosin V interacts with the unique C-terminal β -propeller domain of TRIM3. These associations suggest that TRIM3 may play a role in cell motility and cargo transport. Three named isoforms of TRIM3 exist as a result of alternative splicing events.

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: TRIM3 (human) mapping to 11p15.4; Trim3 (mouse) mapping to 7 E3.

SOURCE

TRIM3 (T-13) is an affinity purified goat polyclonal antibody raised against a peptide mapping within an internal region of TRIM3 of human origin.

PRODUCT

Each vial contains 200 μ g IgG in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

Blocking peptide available for competition studies, sc-132856 P, (100 μ g peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

TRIM3 (T-13) is recommended for detection of TRIM3 isoforms α , β and γ of mouse, rat and human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), immunoprecipitation [1-2 μ g per 100-500 μ g of total protein (1 ml of cell lysate)], immunofluorescence (starting dilution 1:50, dilution range 1:50-1:500) and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000); non cross-reactive with other TRIM family members.

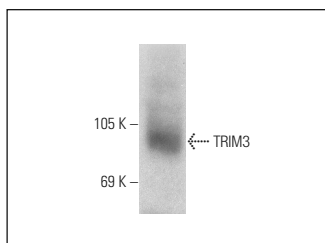
TRIM3 (T-13) is also recommended for detection of TRIM3 isoforms α , β and γ in additional species, including equine, canine, bovine and porcine.

Suitable for use as control antibody for TRIM3 siRNA (h): sc-96295, TRIM3 siRNA (m): sc-154644, TRIM3 shRNA Plasmid (h): sc-96295-SH, TRIM3 shRNA Plasmid (m): sc-154644-SH, TRIM3 shRNA (h) Lentiviral Particles: sc-96295-V and TRIM3 shRNA (m) Lentiviral Particles: sc-154644-V.

Molecular Weight of TRIM3: 82 kDa.

Positive Controls: PC-12 cell lysate: sc-2250.

DATA



TRIM3 (T-13): sc-132856. Western blot analysis of TRIM3 expression in PC-12 whole cell lysate.

STORAGE

Store at 4° C, ****DO NOT FREEZE****. Stable for one year from the date of shipment. Non-hazardous. No MSDS required.

RESEARCH USE

For research use only, not for use in diagnostic procedures.

PROTOCOLS

See our web site at www.scbt.com or our catalog for detailed protocols and support products.